

### REMARKS

The October 17, 2005 Office Action has been carefully considered. In view of the following remarks, all pending claims are in condition for allowance. Accordingly, favorable reconsideration of all pending claims is respectfully requested.

In the Office Action, the abstract was objected to for use of legal phraseology. Claims 1 and 5 were rejected under 112(1) and claims 1-6 were rejected under 112(2). Claims 1-6 were further rejected as obvious over Chevalier (U.S. Pat. No. 6,138,933) in view of Durinck (U.S. Patent No. 5,204,494). Claims 1-2, 4 and 6 were also rejected as obvious over Chevalier in view of Catani (U.S. Patent No. 5,743,475). Claim 3 was further rejected as obvious over Chevalier in view of Ostermann (U.S. Patent No. 1,718,184).

Applicant has amended the abstract to conform with the requirements noted by the Examiner. Applicant respectfully submits that the amended abstract is no longer objectionable.

Applicant has amended claim 1 to provide antecedent basis for the limitations "the roller" and "the axial sections." With regard to the enablement objection, the support system prevents movement of the cylinder in circumferential directions such as an upward or downward direction. Applicant has amended claim 1 to clarify that the support system has two support structures which prevent upward and downward circumferential movement of the cylinder. Such supports may be implemented, for example, via a sliding bearing type structure or a riding wheel. The support system is

enabled in the specification on at least page 4, lines 18-26 and element 10 in Figure 2.

Claims 4 and 5 have been amended to clarify that the scrapers in claim 1 provide antecedent basis for that term in these claims. With regard to the enablement objection, the guide is attached to the scraper and has a tilt angle which may be adjusted via a hinged connecting rod. Enablement support may be found on at least page 4, line 29 to page 5, line 2. Applicant respectfully requests withdrawal of the 112 rejections.

The cited references individually and in combination fail to teach or suggest a horizontal roller mill having a cylinder and a plurality of rollers with a support system having a first support structure configured to restrict movement of the cylinder in the downward circumferential direction and a second support structure configured to restrict movement of the cylinder in the upward circumferential direction.

The Office Action concedes that Chevalier does not disclose a plurality of rollers, but cites Durinck and Catani for a plurality of rollers. However, both of these references, even when combined with Chevalier would not result in a horizontal roller mill having a support structure which restricts upward circumferential movement. A hypothetical combination of these references would be a roller mill which would allow circumferential upward movement of the cylinder because the resulting support structure in all of these references only prevents downward movement of the cylinder. For example, the cylinder/drum 10 in Chevalier is supported by shoes or skids 12 which prevent

downward movement of the drum 10 (Col. 2, ll. 7-9, Fig. 1). However, Chevailer does not disclose a second support at the top of the drum which prevents upward movement of the drum 10 as in the pending claims.

Similarly, Durinck describes a rotating body 10 which rests on and is supported by a frame 16. (Col. 3, ll. 59-64). The frame 16 is located under the rotating body 10 and thus prevents downward circumferential motion. However Durinck does not disclose nor suggest a second support structure at the top of the rotating body to prevent upward circumferential motion.

Finally, Catani describes a cylindrical drum 11 which has rings 12 resting on contact rollers 13 which are located at the bottom of the drum 11. (Col. 2, ll. 8-13). The drum 11 rests on contact rollers 13 which support the drum 11 but only prevent downward circumferential motion. Catani does not disclose nor suggest a second support structure at the top of the drum 11 to prevent upward circumferential motion.

In order to further distinguish the cited references, Applicant has amended claim 1 to include the language of “having a first support structure configured to restrict the cylinder in the downward circumferential direction and a second support structure configured to restrict the cylinder in the upward circumferential direction.” As explained above, none of the references either separately or in combination teach nor suggest a second support structure configured to restrict the cylinder in the upward circumferential direction. All of the references teach a cylinder resting on a support which only restricts downward circumferential movement. Applicant respectfully submits that

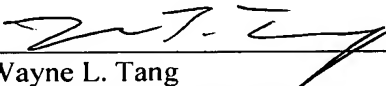
amended claim 1 is now allowable. Claims 2-6 depend from claim 1 and are similarly allowable.

Applicant respectfully submits the pending claims (1-6) are now in condition for allowance and requests such action. The Commissioner is hereby authorized to refund any overpayment and charge any deficiency in the amount enclosed or any additional fees which may be required during the pendency of this application under 37 CFR 1.16 or 1.17 to Deposit Account No. 50-2455. A copy of this paper is enclosed.

Respectfully submitted,

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